

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

10/520502

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
15 January 2004 (15.01.2004)

PCT

(10) International Publication Number  
WO 2004/005926 A2

(51) International Patent Classification?: G01N 33/569,  
C12N 15/00

(UK) Limited, Medawar Centre, Oxford Science Park,  
Oxford OX4 4GA (GB).

(21) International Application Number:  
PCT/GB2003/002836

(74) Agents: FURLONG, Isla, Jane et al.; D Young & Co, 21  
New Fetter Lane, London EC4A 1DA (GB).

(22) International Filing Date: 2 July 2003 (02.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0215287.4 2 July 2002 (02.07.2002) GB  
10/434,885 9 May 2003 (09.05.2003) US

(81) Designated States (national): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,  
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,  
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,  
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,  
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicants (for all designated States except US): OX-  
FORD BIOMEDICA (UK) LIMITED [GB/GB];  
Medawar Centre, Oxford Science PARK, Oxford OX4  
4GA (GB). CANCER RESEARCH TECHNOLOGY  
LIMITED [GB/GB]; Sardinia House, 52 Sardinia Street,  
London WC2A 3NL (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): WARD, Christo-  
pher, M. [GB/GB]; CRC Immunology Group, Paterson  
institute for Cancer Research, Christie Hospital NHS  
Trust, Wilmslow Road, Manchester M20 4BX (GB).  
STERN, Peter, L. [GB/GB]; CRC Immunology Group,  
Paterson Institute of Cancer Research, Christie Hospital  
NHS Trust, Wilmslow Road, Manchester M20 4BX (GB).  
CARROLL, Miles, W. [GB/GB]; Oxford BioMedica

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

— without international search report and to be republished  
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: 5T4 ANTIGEN EXPRESSION

(57) Abstract: The present invention relates to methods for detecting the differentiation status of stem cells comprising detecting the expression of 5T4 antigen in said stem cells. The present invention also relates to methods for separating populations of undifferentiated or differentiated mammalian stem cells from a mixture of differentiated and undifferentiated stem cells through detection of 5T4 expression.

WO 2004/005926 A2